



VLM

DRAWN

CHECKED

PLOT SCALE = 50.0000 '/ IN.

\$FILES\$

REVISED

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PANEL EQUIPMENT

	BILL OF MATERIAL						
ITEM QUANTITY		DESCRIPTION					
А	1	MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 40 AMP, FRAME, 100 AMP, NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22000 AMP, AT 480 VOLT. REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED MECHANICALLY HELD, 2 POLE, SINGLE THROW, 100 AMP., 600 VOLTS CONTROL CIRCUIT 120 VOLT. CIRCUIT BREAKERS, 1-POLE, 100 AMP, FRAME, 30 AMP, NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-10,000 AMP, AT 240 V.					
В	1						
C	8						
D	2	CONTROL CIRCUIT-CIRCUIT BREAKER, 1-POLE, 120 V., 100 AMP, FRAME 30 AMP, NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-5000 AMP, AT 240 V.					
E	1	ASTRONOMIC MICROPROCESSOR-BASED 2-CHANNEL CONTROLLER [TIME SWITCHED]					
Н	1	SPST 20A SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN.					
I	1	INCANDESCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 60 WATT, 120 V. LAMP.					
J	1	20 A., 120 V., DUPLEX RECEPTACLE, GFCI.					
К	1	COPPER NEUTRAL BUS ¹ /4" X 1" X 12" LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS					
L	2	SPDT TOGGLE SWITCHES MOUNTED IN 4" X 4" BOX.					
М	1	COPPER GROUND BUS ¹ / ₄ " X 1" X 12" LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS					
N	1	THE SURGE PROTECTION MUST BE SUITABLE FOR 240/120 VOLT SINGLE PHASE 60HZ AC ELECTRICAL SERVICE, WITH A SURGE ENERGY CAPABILITY OF 2160 JOULES OR BETTER AT 8/20 MICROSECONDS RATED -40 TO 60 DEGREES C., WITH LED OPERATING INDICATORS, AND MUST BE UL LISTED PER UL 1449, CUTLERHAMMER CMOV230L065XST OR APPROVED EQUAL.					

NOTES:

SCALE:

KANE COUNTY

DIVISION OF TRANSPORTATION

- 1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.
- 2. FOUNDATION SIZE MUST BE COORDINATED WITH CABINET SIZE AND MFR.
- 3. IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 2" TOP SOIL. LEVEL THE AREA AND ON TOP, PLACE LENGTH WISE PARALLEL TO CONTROL CABINET. A CONCRETE PAD 36" x 60" x 4" MIN. SIZE. THE COST OF LABOR AND MATERIALSARE INCLUDED IN THE COST OF THE CONTROLLER.
- 4. DOOR WILL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
- 5. DOOR WILL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP AND THE BOTTOM.
- 6. DOOR HINGE WILL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A'/4"
 DIA. STAINLESS STEEL HINGE PIN.
- 7. ALL EXTERNAL HARDWARE WILL
- 8. CONTROL WIRING TO BE *12 AWG, 600V. TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
- 9. METER BOX WILL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE. (NOT REQUIRED ON UNMETERED SERVICES OR AS REQUIRED BY THE ELECTRIC UTILITY).

- 10. CABINETS WILL BE PRIMED AND PAINTED AS SPECIFIED.
- 11. THE HEADS OF CONNECTORS SCREWS WILL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
- 13. ALL WIRING WITHIN THE CABINET MUST BE
 COLOR CODED AS INDICATED.
 R = RED BL = BLUE W = WHITE
 B = BLACK Y = YELLOW G = GREEN
- 14. PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
- 15. ALL WIRING WILL BE NEATLY DRESSED AND SUPPORTED.
- 16. THE CONTROLLER MUST BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
- 17. 12" x 16" STAINLESS STEEL EXTERIOR NAMEPLATE WILL BE ENGRAVED TO "KANE COUNTY LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.

LIGHTING CONTROLLER DETAIL (Type CB-RCS 60A-240V)							F.A. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
							361	06-00214-15-BR	KANE/DUPAGE	545	274
						/)			CONTRACT	NO.	63074
	SHEET	NO.	OF	SHEETS	STA.	TO STA.	FED. RO	DAD DIST. NO. ILLINOIS FED. 4	ID PROJECT		